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Traffic flow information transmission system - uses transmission of velocity and position information between adjacent road vehicles

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
DE 4034681	A	19920514	DE 4034681	A	19901031	G08G-001/09	199221 B
GB 2250619	A	19920610				G08G-001/0962	199224 N
DE 4034681	C2	19930218	DE 4034681	A	19901031	G08G-001/09	199307
GB 2250619	B	19941123	GB 9026314	A	19901204	G08G-001/0962	199444 N
US 5428544	A	19950627	US 90608812	A	19901105	G06F-165/00	199531 N
			US 9389654	A	19930708		

Priority Applications (No Kind Date): DE 4034681 A 19901031; US 9389654 A 19930708

Patent Details:

Patent	Kind	Lat	Pg	Filing Notes	Application	Patent
DE 4034681	A		11			
GB 2250619	A		25			
DE 4034681	C2		11			
GB 2250619	B		2			
US 5428544	A		10	Cont of		US 90608812

Abstract (Basic): DE 4034681 A

The traffic flow information system uses a display mounted within each vehicle, allowing the velocity and position of the vehicle itself and each other vehicle to be indicated. A transmitter transmits the information to each passing vehicle and a receiver allows the information provided by the passing vehicles to be received. The receiver is coupled to a control device, processing the received information for controlling the display.

Pref. the received information is decoded and fed to separate registers, respectively holding information relating to the vehicle itself, to the passing vehicles and to the vehicles in front or behind the vehicle itself.

ADVANTAGE - Eliminates need for separate central computer, roadside information posts, etc.

Dwg.3/5

Abstract (Equivalent): DE 4034681 C

Each vehicle has a transmitter (7) for sending out information and a receiver (4). Each vehicle has a memory unit (13, 15, 16) for storing information and a control unit (18) for processing information and producing control information.

The transmitter on a first vehicle sends out information to a second vehicle coming towards it, information concerning traffic affecting the first vehicle and other vehicles in front of it and information sent out previously by one or more of these vehicles to the second vehicle and also received at some time by the first vehicle. The information from the first vehicle is stored in the memory of the second vehicle and transmitted to a third vehicle travelling behind the first vehicle.

ADVANTAGE - No need to use satellites or transmitting posts by roadside.

Dwg.3/5

Abstract (Equivalent): GB 2250619 B

A system of communication between a plurality of navigable vehicles, each navigable vehicle comprising: means for identifying a route of a first vehicle relative to a map which covers at least a destination and current position of the first vehicle; means for detecting traffic data including at least speed values and the route of the first vehicle; transmitting means for transmitting said traffic data from the first vehicle to a second

vehicle in the vicinity of the first vehicle or from the second vehicle to an other vehicle in the vicinity of the second vehicle; receiving means for receiving traffic data transmitted by the first or the second vehicle said traffic data received by said receiving means of the other vehicle from the second vehicle includes a first portion including traffic data of the second vehicle and a second portion including a traffic data of the first vehicle travelling along routes which may be taken by the other vehicle in reaching its destination; processing means for applying said second portion of said received traffic data to possible routes for directing the other vehicle to its destination and indication means responding to said processing means, for indicating an optimal route towards the destination for the other vehicle.

Dwg.1/1

Abstract (Equivalent): US 5428544 A

The traffic information of the vehicles, such as the speed and the route and direction, is remotely transmitted to each other during passing, via communication devices mounted on each of the vehicles.

The apparatus comprises sensors to detect the direction and the displacement of the vehicle, a microcomputer to recognise the position of the vehicle by referring the detected direction and displacement to a digitised map, a receiver to receive the passing vehicle's traffic information to be processed by the micro computer, a transmitter to transmit the traffic information to the passing vehicle, and a navigation unit in the microcomputer to generate navigation information and indicate the traffic information of vehicles ahead is transmitted to a receiving vehicle in an indirect manner via a passing vehicle.

USE - For transference of traffic information among vehicles and for assisting navigating vehicles.

Dwg.3/5

Title Terms: TRAFFIC; FLOW; INFORMATION; TRANSMISSION; SYSTEM; TRANSMISSION ; VELOCITY; POSITION; INFORMATION; ADJACENT; ROAD; VEHICLE

Derwent Class: P85; S02; T07; W05; X22

International Patent Class (Main): G06F-165/00; G08G-001/09; G08G-001/0962

International Patent Class (Additional): G08C-017/00; G09G-003/00

File Segment: EPI; EngPI

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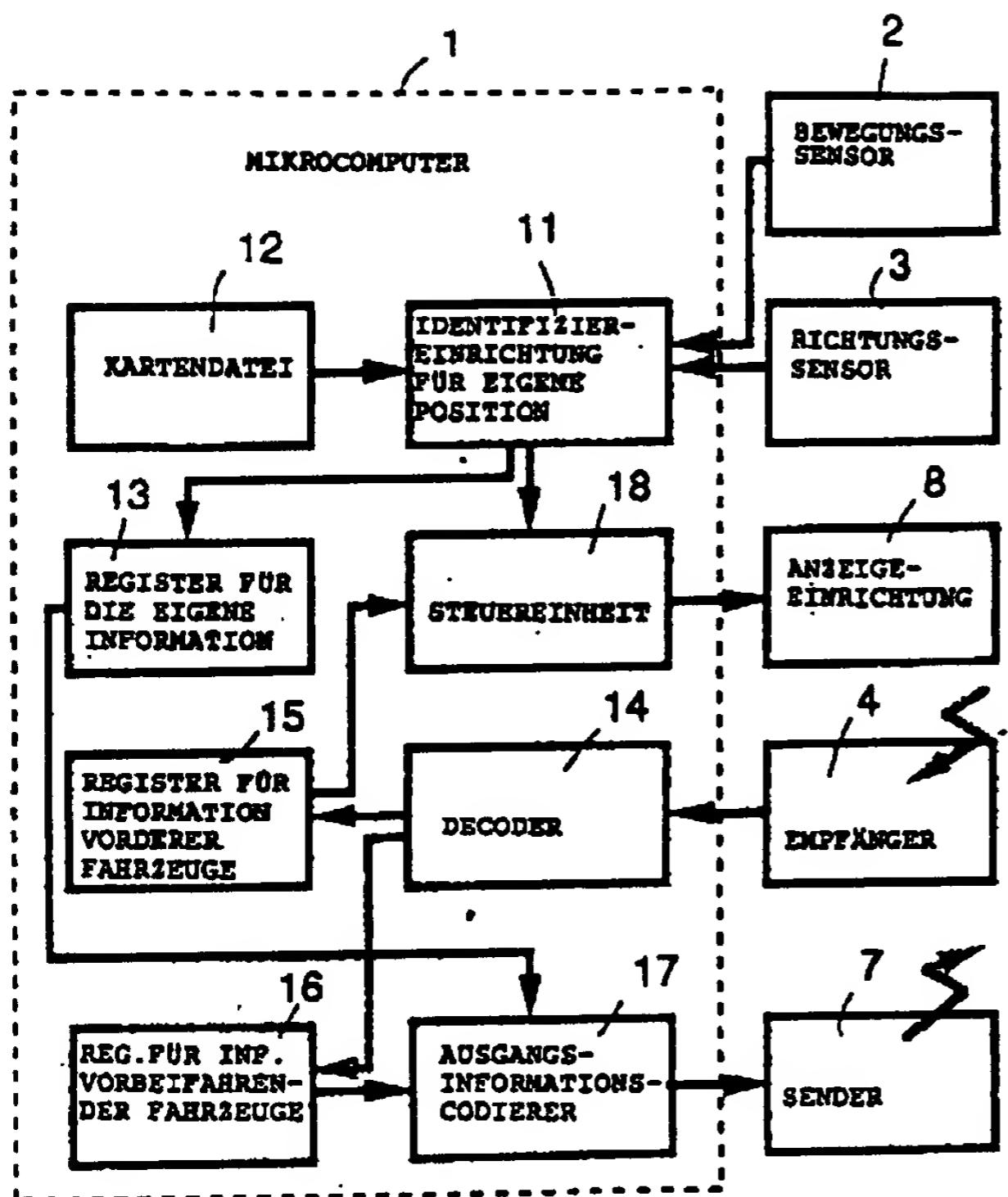


FIG. 3